

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number  
**WO 2005/097862 A1**

(51) International Patent Classification<sup>7</sup>: **C08G 18/12**,  
18/48, 18/50

(21) International Application Number:  
PCT/US2005/010346

(22) International Filing Date: 28 March 2005 (28.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/557,875 31 March 2004 (31.03.2004) US

(71) Applicant (for all designated States except US): **DOW  
GLOBAL TECHNOLOGIES INC.** [US/US]; Washing-  
ton Street, 1790 Building, Midland, MI 48674 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **THIEDE, Verena, M.,  
T.** [DE/DE]; Geistrasse 9, 48151 Muenster (DE).

(74) Agent: **ULMER, Duane, C.**; The Dow Chemical Com-  
pany, Intellectual Property, P.O. Box 1967, Midland, MI  
48641-1967 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: A URETHANE-MODIFIED ISOCYANATE COMPOSITION AND POLYURETHANE PRODUCT THEREFROM

(57) Abstract: The present invention relates to an isocyanate-terminated composition having utility in the preparation of hydrophilic polyurethanes. The isocyanate composition has an isocyanate content of less than about 15 weight percent and comprises the reaction product of an aliphatic or aromatic polyisocyanate, or mixtures thereof; with a polyol composition that contains a polyether polyol derived from a molecule containing tertiary nitrogen.



**WO 2005/097862 A1**